

half the length of the front, broad at the base, constricted at the upper one-third, rather blunt at the apex. Genæ appearing as a mere line past the loræ but nearly attaining the tip of the clypeus; genæ, loræ and clypeus pale green. Vertex slightly longer at the middle than at the eyes, very obtusely rounded in front, colour golden yellow, paler on posterior margin, having a slender, dark median line, ocelli pits large and pale in colour, but no ocelli; eyes very black and large, shortest distance between the eyes 1.7 times the length of the vertex at the middle. Pronotum twice the length of the vertex and nearly twice as wide as long; anterior two-thirds golden yellow, the remainder black. Scutellum bright green at tip but somewhat smoky on posterior portion. Elytra pale green, a deep smoky transverse band at the middle of the clavus, not quite attaining the costal margin, the apical area deep smoky on inner half, second apical cell with a short peduncle. Tergum washed with golden yellow, venter pale green, tips of pygofers and ovipositor deep green. Legs pale green with tips of tibiæ and tarsi deep blue green."

AN ANNOTATED LIST OF THE CERAMBYCIDÆ OF CALIFORNIA.

BY RICHARD T. GARNETT, UNIVERSITY OF CALIFORNIA, BERKELEY, CAL
(Continued from page 177.)

53. *Aneflus volitans* LeConte.

Found at San José del Cabo, Lower California.

54. *Aneflus prolixus* LeConte.

Found at Cape San Lucas, Lower California.

55. *Aneflus protensus* LeConte.

Found at Cape San Lucas, Lower California.

56. *Aneflus linearis* LeConte.

Found at Cape San Lucas, Lower California.

57. *Eustroma validum* LeConte.

Found in Southeastern California and at San José del Cabo, Lower California.

58. *Compsa puncticollis* LeConte.

Found at San José del Cabo, Lower California.

59. *Compsa quadriplagiata* LeConte.

Found at Cape San Lucas, Lower California.

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60. *Poecilobrium chalybæum* LeConte.
Found in the middle part of California, common on flowers of *Ceanothus* at Pasadena; also on poison oak flowers in Sonoma Co. June 3–July 7.
61. *Poecilobrium rugosipenne* Linnell.
One specimen taken from California.
62. *Eumichthus oedipus* LeConte.
Found in Humboldt and Sonoma Counties on flowers of *Spiraea*.
63. *Phyton discoideum* LeConte.
Found at Cape San Lucas, Lower California.
64. *Hybodera tuberculata* LeConte.
A number of specimens have been taken by Ricksecker at Camp Meeker, Sonoma County. Breeds on maple in Washington.
65. *Hybodera debilis* LeConte.
Found in Los Angeles County by Fall. Has been beaten from live oak in the Bay Counties by Van Dyke.
66. *Callimus cyanipennis* LeConte.
Found occasionally in Northern California and Sierras. Taken frequently in Southern California, at Los Angeles on *Ceanothus* by Fall. Found on *Ceanothus*, *Spiraea*, and other flowers by Van Dyke.
67. *Callimus ruficollis* LeConte.
Found commonly in Northern California on *Ceanothus* and poison oak flowers by Van Dyke. I found this so numerous in June in Lake County as to be present in almost every sweeping of poison oak; so numerous that most were allowed to escape. June 7–July 9.
68. *Megobrium edwardsii* LeConte.
This has been found on live oak at Pomona by Fall, on oak at San Diego by Blaisdell, taken from *Ceanothus* twigs at Monterey by Slevin, and also found at Santa Rosa Island.
69. *Callimoxys sanguinicollis* Olivier (*C. fuscipennis* Lec.—male).
Found rarely in Southern California, common in Northern California on flowers of *Ceanothus* and poison oak. June 1–July 3.

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70. *Molorchus longicollis* LeConte.
Found rarely in Southern California, common in Northern California on Ceanothus and various other flowers. June 13.
71. *Rhopalophora bicincta* Horn.
Found in Lower California.
72. *Rhopalophora rugicollis* LeConte.
Found in Lower California.
73. *Holopleura helena* LeConte. (*H. marginata* Lec.—female).
Found in Northern California and Sierras, rare in Southern California. Bred by the author from laurel at Oakland, Alameda Co. June 28–July 3.
74. *Rosalia funebris* Motschulsky.
This is common in the redwood belts of Marin and Sonoma Counties. Breeds in laurel (*Umbellularia californica*). In State of Washington it breeds in ash. Taken at Oakland, June 21.
75. *Dendrobias mandibularis* Serv. (*quadrimaculatus* Dup.)
Has been found commonly by Fall on the wing in early evening, about the willows along the Colorado River at Yuma in July. Found in Lower California. July 5.
76. *Lissonothus multifasciatus* Dup.
Found in Arizona; supposed also to be in vicinity of Yuma. Found in Lower California.
77. *Stenaspis solitaria* Serv.
Common at Cape San Lucas, Lower California.
78. *Tragidion annulatum* LeConte.
Found by Fall at Pomona, Pasadena, Lower California; by Van Dyke at Banning on mesquite; by Cottle at Upper Soda Springs, Shasta Co.; also by Van Dyke on South Fork of the King's River Canyon, Fresno.
79. *Tragidion armatum* LeConte.
Found by Van Dyke at Newhall, Los Angeles Co., sucking the sap of *Yucca whipplei*.
80. *Purpuricenusa dimidiatus* LeConte.
Taken by Blaisdell at San Diego, by Van Dyke in Shasta Co., by Huguenon at Alma, Santa Cruz Co.

- Found on Yerba Santa, locally called "Mountain Balm." July 12.
81. *Metaleptus angulatus* Chevrolat.
Found in desert region of Southern California.
82. *Amannus pectoralis* LeConte.
Location given as Yuma by LeConte.
83. *Batyle suturalis* Say.
Taken in numbers by author in latter part of May at Calistoga, Napa County. On *Ceanothus* flowers. May 28-June 27.
84. *Oxoplus marginatus* LeConte.
This and the following may be sexes. Found at San José del Cabo, Lower California.
85. *Oxoplus cruentus* LeConte.
Found at San José del Cabo, Lower California.
86. *Oxoplus jocosus* Horn.
Rare in the foothills near Pomona; found by Fall flying in day-time along the streams.
87. *Crossidius ater* LeConte.
Found in Nevada. Probably is also found in adjacent parts of California.
88. *Crossidius testaceus* LeConte.
Found at San Diego by Ricksecker, flying in September. Breeds on the roots of *Bigelovia arborescens*.
89. *Crossidius intermedius* Ulke.
Found in Los Angeles County on small, yellow-flowered plants.
90. *Crossidius discoideus* Say.
Taken by Coquillett in Mountains of Los Angeles County.
91. *Perarthrus vittatus* LeConte.
Found by Ricksecker at San Diego in September on the flowers of *Bigelovia arborescens*.
92. *Sphænothecus suturalis* LeConte.
No data on this species.
93. *Sphænothecus basalis* Horn.
Found at San José del Cabo, Lower California.

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94. *Stenosphenus novatus* Olivier.
Found at San José del Cabo, Lower California. Several specimens were beaten from willow in July at Yuma by Fall.
95. *Cyllene antennatus* White.
Common in the deserts of Southern California, breeding in mesquite. Has been picked up on the streets of Los Angeles. Also bred by Van Dyke from mesquite brought to Los Angeles as fire wood.
96. *Cyllene crinicornis* Chevrolat.
Found in the deserts of Southern California. Have a specimen sent to me from Hololulu, T. H.
97. *Clytus lanifer* LeConte.
Found throughout the State, especially north of San Francisco and in the Sierras. Taken by Van Dyke on the flowers of *Eriogonum fasciculatum*. Abundant on the flowers of the chestnut oak in Sonoma Co. Also taken in the San Bernardino Mts. by Van Dyke. Taken by myself at Newcastle in July.
98. *Clytus planifrons* LeConte. [*Xylotrechus* in Henshaw-6189].
Found rarely north of San Francisco and in the Sierras. Bred by Rivers from dead branches of willow at San Francisco.
99. *Xylotrechus undulatus* Say.
Found in northern part of the State and in the Sierras. Breeds in *Pseudotsuga taxifolia* and probably other coniferous trees. Taken at St. Helena, Napa Co., by the author from cordwood of *Pinus ponderosa*. June 1-July 30.
100. *Xylotrechus insignis* Lec.—female. (*X. obliteratus* Lec.—male).
Breeds in various species of willow; found in all parts of State. There are two forms, one of them a southern form with much yellow pubescence.
101. *Xylotrechus annosus* Say.
Rare in northern part of State. Taken by author at Donner Lake in July. Taken by Van Dyke in Trinity County breeding in poplar.

102.  *Xylotrechus nauticus* Mannerheim.
Found commonly throughout the State. Taken by Blaisdell and Van Dyke breeding in live oak; taken by Blaisdell and Pierson breeding in *Eucalyptus globulus* at San Diego and Berkeley, respectively. Also taken in Sonoma County by Ricksecker. June 2-Aug. 14.
103. *Neoclytus irroratus* LeConte.
Rare, but several have been found in Southern California. Taken at Pasadena by Dagget, at Santa Barbara by Fall, at Los Angeles, Mt. Shasta, and the south fork of the King's River Canyon by Van Dyke.
104. *Neoclytus conjunctus* LeConte.
Found in Northern California. Taken by Van Dyke breeding in manzanita and madrone; found by Kusche breeding in *Quercus douglasi* and *Fraxinus oregona*.
105. *Neoclytus muricatus* Kirby.
Feeds on *Pseudotsuga taxifolia* in the northern part of the State.
106. *Neoclytus balteatus* LeConte.
Rare, 2 taken in Shasta County, one by Cottlé, one by Van Dyke; taken on manzanita. One taken by Van Dyke near the King's River, Fresno County, and one by Slevin near Monterey.
107. *Neoclytus interruptus* LeConte.
Found in Northern California. July 26.
108. *Neoclytus modestus* Fall.
Taken by Fall and Hopping at Pasadena and Kaweah, respectively.
109. *Neoclytus carus* Fall.
Found in the mountains near Pasadena by Fall, and at Santa Monica by Van Dyke.
110. *Neoclytus tenuiscriptus* Fall.
Taken by Fall at Pasadena and Claremont.
111. *Eudercus parallelus* LeConte.
Found at San José del Cabo, Lower California.
112. *Callichroma cobaltinum* LeConte.
Found at Cape San Lucas, Lower California.

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113. *Atimia confusa* Say.
This has been cited from California by Henshaw, but this is doubtful. (Teste Van Dyke).
114. *Atimia dorsalis* Le Conte.
Found mainly in the north and in the middle Sierras. Is found rarely at Riverside. Taken by Van Dyke breeding in post cedar.
115. *Desmocerus auripennis* Chevrolat.
Found from Mt. Shasta to Mt. Whitney in the high Sierras, breeding in mountain elderberry. Taken at Truckee in July by myself. July 7.
116. *Desmocerus cribripennis* Horn.
Found mainly in Coast Belt not more than several miles from the sea, as far south as Mt. Tamalpias. Breeds in red-berried elderberry trees. (Van Dyke).
117. *Desmocerus californicus* Horn.
Rare, found from Los Angeles north through the coast range to Marin County. Breeds in black-berried elderberry trees. (Van Dyke).
118. *Necydalis laevicollis* LeConte.
Found in Northern California. Bred from tan bark oak by H. C. Muzzall.
119. *Necydalis caviennis* LeConte.
Found in Santa Cruz County, also on Russian River. Taken by Van Dyke in the North, and by Ricksecker in San Diego and Sonoma Counties.
120. *Necydalis barbaræ* Rivers.
Found rarely at Santa Barbara.
121. *Ulochætes leoninus* LeConte.
Found in Northern California and Sierras, also San Bernardino Mts. Bred from *P. ponderosa* by Van Dyke at Sissons and King's River.
122. *Pyrotrichus vitticollis* LeConte.
Found by Fuchs and Van Dyke breeding in the heartwood of alders about San Francisco Bay. May 29.
123. *Leptalia macilenta* Mannerheim.
Breeds in willow, found along the coast belt from

northern boundary to Santa Cruz. Taken at Oakland, November 2.

124. *Rhagium lineatum* Olivier.

Breeds in various pines. Found by Blaisdell breeding in yellow pine; by author on Jeffrey pine at Summit, Nevada County; by Slevin on Monterey pine at Monterey. Found north and throughout the Sierras. June 18-July 29.

125. *Centrodera nevadica* LeConte.

Taken by Fuchs near Lake Tahoe; by Blaisdell at San Diego; by Pilate in Tulare County; by Van Dyke in Trinity County, breeding in *Pinus ponderosa*.

126. *Toxotus vestitus* Hald.

Common in Northern California and throughout the Sierras. Found on flowers of wild hollyhock, azalea, lupine, etc. There are several colour varieties. Taken at Oakland, June 2.

var. *nubifer* LeConte.

var. *lateralis* Casey.

Taken at San Francisco.

127. *Toxotus flavolineatus* LeConte.

This is the western phase of *T. vittiger* Rand (= *T. trivittatus* Say). Found in the deep woods of the coast belt just north of San Francisco.

128. *Pachyta monticola* Rand.

Rare in the Sierras and north, probably feeds on spruce.

129. *Pachyta liturata* Kirby.

Found at high altitudes in the Sierras. Taken by Daggett on Mt. Whitney at elevation of 8,000-9,000 feet. Taken by Van Dyke at Mt. Shasta at elevation of 8,000 feet, breeding in fir.

130. *Pachyta spurca* LeConte.

Several specimens taken by Fall at Echo Mt., Southern California. Found by Van Dyke at Santa Monica. Breeds in *Pseudotsuga taxifolia*. It flies at night and is attracted to light. Is more common in the Sierras and north of San Francisco. July 13.

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131. *Anthophilax tenebrosus* LeConte.
Rare in the Sierras, several specimens having been taken in Placer and Eldorado Counties. July 13.
132. *Acmaeops pinguis* LeConte.
This is probably a variety of *A. tumida* LeConte.
133. *Acmaeops tumida* LeConte.
Rare in Southern California; common in Central and Northern California on flowers, especially *Ranunculus californicus*, wild sunflower, wild hollyhock, etc. Taken by author at Oakland and Calistoga. June 1–November 7.
134. *Acmaeops viola* LeConte.
Found in the extreme northern part of the State on flowers. Also taken at Calistoga by author. May 28.
135. *Acmaeops vincta* LeConte.
Described from Montana, also taken in Oregon. Probably found in the extreme north of California.
136. *Acmaeops basalis* LeConte.
Common in the middle of California and occasionally in the north on wild rose and certain umbelliferous plants. June 20.
137. *Acmaeops militaris* LeConte.
Fairly common in parts of the extreme north of the State and in the Sierras. Taken in Sonoma County by Ricksecker. June 11–July 21.
138. *Acmaeops falsa* LeConte.
Found by Daggett at Mt. Whitney, between the leaves of *Yucca whipplei*. Taken by Van Dyke in June on flowers, especially those of wild holly. Found also at Calmalli Mines, Lower California.
139. *Acmaeops proteus* Kirby
Taken by author at Calistoga, June 1. Reported from Lower California.
140. *Acmaeops pratensis* Laich.
Rare in Northern California and occasionally in the higher Sierras as far south as Mt. Whitney. More common in the North and in the Rockies.

(To be continued)